**U Substitution: running the chain rule backwards**

**Use the table as an aid for learning how to integrate by substituting.**

|  |  |  |  |
| --- | --- | --- | --- |
| **Integral** | **The peanut** | **The shell** | **Derivative of**  **the peanut** |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |

**Find the indefinite integral. Not all need u substitution.**

6. 7. 8.

9. 10. 11.

12. 13. 14.

15. 16. 17.

18. 19. 20.